



1. UTILITIES INFRASTRUCTURE - CIVIL (PART 2 OF 3)
2. UTILITIES INFRASTRUCTURE
3. BUILDING GROUP NO. 66
4. SPECIFIC PURPOSE TOPOGRAPHIC SURVEY PREPARED
5. BY JMR SURVEYING GROUP, REVISED 11/30/11
6. GEOTECHNICAL ENGINEERING REPORT PREPARED BY
- PSI DATE 9/23/2011 (PSI PROJECT No. 0757628)
- PROJECT 722 LAND SITE DEMO

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C102	NOTES / ABBREVIATIONS / LEGEND
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PROJECT DATA

PROJECT AREA: 7.49 AC  
LOCATION: SECTION 13, TOWNSHIP 23S, RANGE 28E  
CITY OF ORLANDO, FLORIDA

DRAINAGE PATTERN:

EXISTING: The project area is a portion of a permitted stormwater management system. Stormwater runoff is collected and routed to the master stormwater management system which is part of the existing Theme Park and Studios system. The runoff will be routed to the pond in the center of the Theme Park (the Show Lagoon) which has two outfall structures. The outfall structures discharges the runoff through the Park via through a discharge pipe system to another large pond. This pond treats the runoff from the first inch of rainfall. The outfall system then discharges through a canal system then directly to the offsite drainage system on I-4/Kirkman Road.

PROPOSED: The proposed drainage pattern will not be altered from that which is described in the existing condition.

POLLUTION PREVENTION NOTES

Construction Sequence:

The Order of Activities will be as follows:

1. Install stabilized construction entrance
2. Install silt fences and hay bales and inlet protection as required
3. Stock pile top soil if required
4. Perform preliminary grading on site as required
5. Stabilize denuded areas and stockpiles as soon as practicable
6. Complete grading and install permanent seeding/sod and planting
7. Remove accumulated sediment from basins
8. When all construction activity is complete and the site is stabilized, remove any temporary BMP measures.

Soil Types:

Soil Type 37, St. Johns Fine Sand

Dewatering Methods and Locations:

Dewatering is not anticipated for this project. However, if required shall be utilized only if necessary by means of a well point system. Discharge from the well point system shall be directed to the existing stormwater management pond. The contractor shall obtain all necessary permits for well point system prior to construction.

Erosion Temporary Measures:

- A. Synthetic Hay bale barriers shall be used to protect proposed inlets per details.
- B. Filter fabric barriers shall be used at the perimeter/limits of the proposed construction to prevent sedimentation from leaving the project boundaries or discharge into offsite drainage facilities.
- C. Stockpiling material: No excavated material shall be stockpiled in such a manner as to direct runoff directly off the project site into any adjacent water body or storm water collection facility.
- D. Inlet protection: Inlets and catch basins which discharge directly off-site shall be protected from sediment-laden storm runoff until the completion of all construction operations that may contribute sediment to the inlet.
- E. Temporary seeding and mulching: Areas opened by construction operations and that are not anticipated to be re-excavated or dressed and receive final grassing treatment within 30 days shall be seeded with a quick growing grass species which will provide an early cover during the season in which it is planted and will not later compete with the permanent grassing. Slopes steeper than 6:1 that fall within the category established in paragraph 8 above shall additionally receive mulching of approximately 2 inches loose measure of mulch material cut into the soil of the seeded area adequate to prevent movement of seed and mulch.
- F. Maintenance: All features of the project designed and constructed to prevent erosion and sediment shall be maintained during the life of the construction so as to function as they were originally designed and constructed.
- G. Contractor shall prevent sediment from leaving the construction site by installing an appropriate anti soils tracking measures.

Permanent Erosion Control Measures:

- A. Permanent Sodding: All areas, which have been disturbed by construction will as a minimum, be seeded, the seeding mix must provide both long-term vegetation and rapid growth seasonal vegetation. Slopes steeper than 4:1 shall be seeded and mulched or sodded.
- B. Permanent Stormwater Management Control: Maintenance of stormwater management system: The permitted stormwater management system shall be maintained, cleaned and inspected in accordance with the SJRWMD permit.

Inspections:

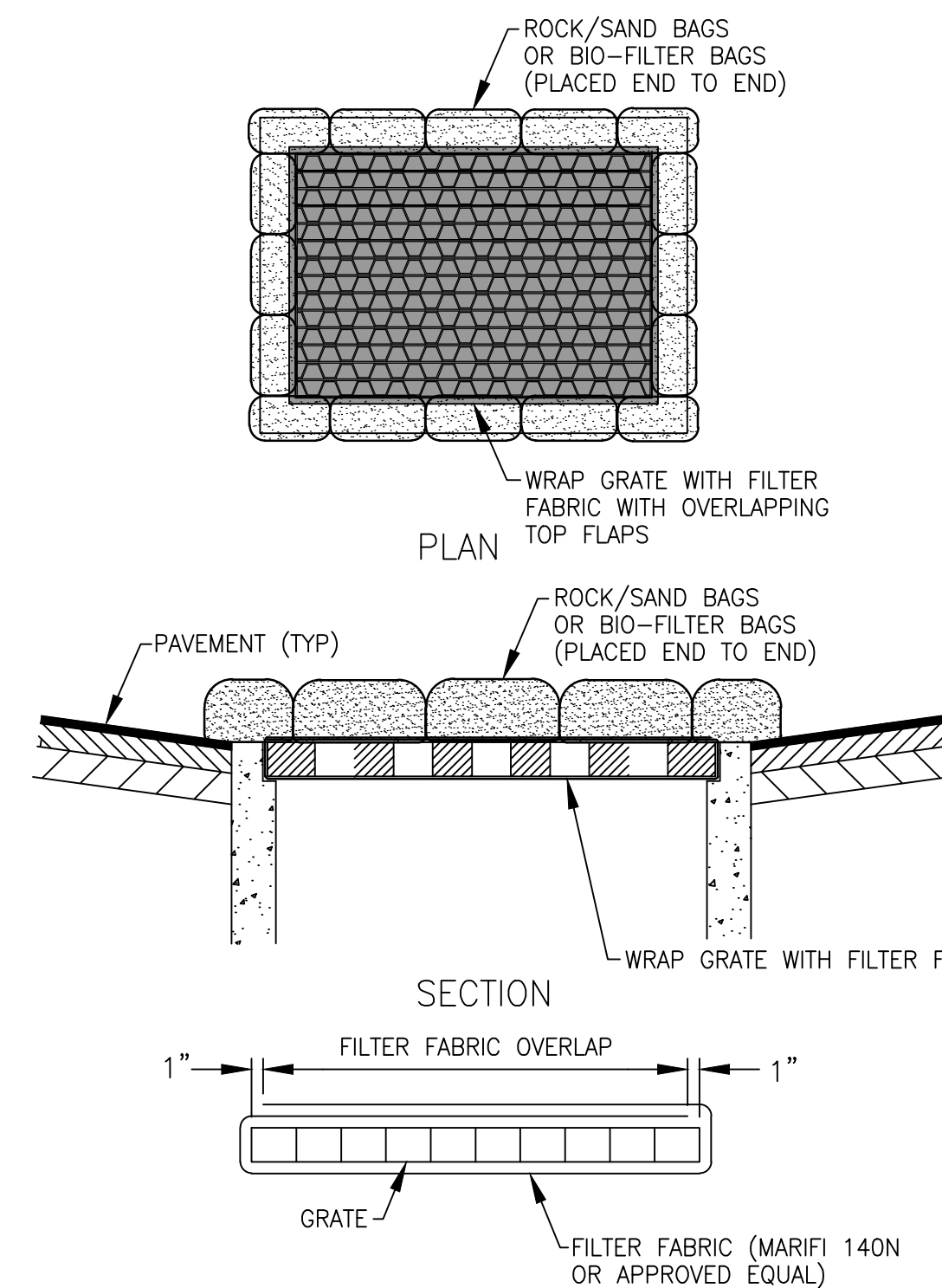
- A. Construction site will be inspected for erosion problems daily and after each rainfall greater than 0.5 inches. A rain gage will be on site to measure the rainfall amounts.
- B. All control measures will be inspected by the superintendent, the person responsible for the day to day site operations or someone appointed by the superintendent, at least once a week and following any storm event of 0.25 inches or greater.
- C. All turbidity control measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of report.
- D. Built up sediment will be removed from silt fence when it has reached one-third the height of the fence.
- E. Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- F. Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.
- G. A maintenance inspection report will be made after each inspection. A copy of the report form to be completed by the inspector is attached. The reports will be kept on site during construction and available upon request to the owner, engineer or any federal, state, or local agency approving sediment and erosion plans, or storm water management plans. The reports shall be made and retained as part of the storm water pollution prevention plan for at least three years from the date that the site is finally stabilized and the notice of termination is submitted the reports shall identify and incidents of non-compliance.
- H. Personnel selected for inspection and maintenance responsibilities will receive training from the site superintendent. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order and filling out the inspection and maintenance reports.

Additional Notes:

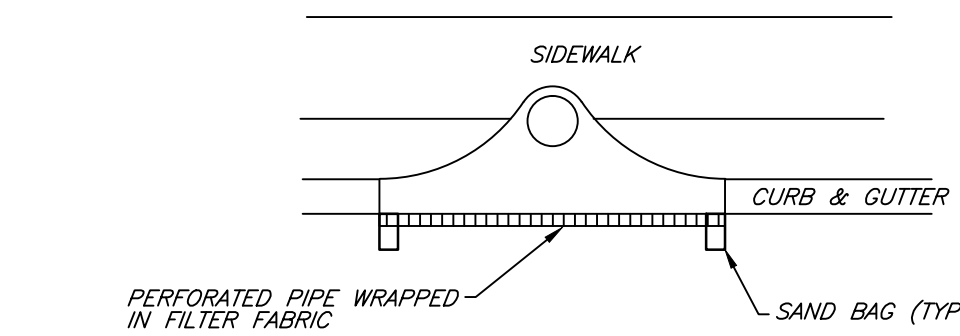
- A. Non-storm water discharges: It is expected that the following non-storm water discharges will occur from the site during the construction period:
  1. Pavement wash waters (Where no spills or leaks of toxic or hazardous materials have occurred).
- B. Contractor is responsible for installing any additional erosion control, if it becomes necessary to meet the state and local standards.
- C. Operator and/or responsible authority: City of Orlando

EROSION CONTROL KEY NOTES

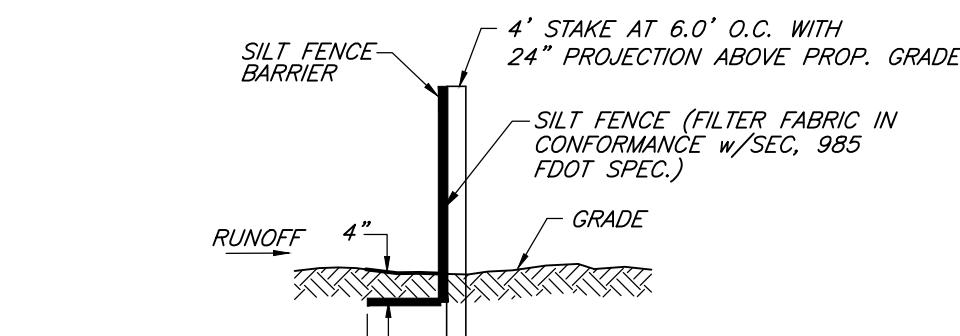
- 1 EXISTING GRATE BOTTOM INLET PROTECTION
- 2 EXISTING CURB INLET PROTECTION
- 3 EXISTING SILT FENCE
- 4 EXISTING FLOATING TURBIDITY BARRIER (TYPE I, FDOT INDEX 103)
- 5 EXISTING CONSTRUCTION ENTRANCE



1 GRATE INLET PROTECTION



2 CURB INLET PROTECTION



NOTE:  
1. IF A DOUBLE ROW OF SILT FENCE IS SPECIFIED BY THE PLAN THE MINIMUM SPACE BETWEEN FENCES SHALL BE 10' AND THE TERMINUS OF THE TWO SILT FENCES SHALL BE ATTACHED TOGETHER BY ROTATING THE TWO END STAKES AT LEAST 180° IN A CLOCKWISE DIRECTION TO SEAL THE TWO FABRIC MATERIAL.  
2. IN AREAS WHERE THE SILT FENCE IS TO BE INSTALLED OVER EXISTING HARDSCAPE OR PAVEMENT, THE EXISTING HARDSCAPE OR PAVEMENT SHALL BE REMOVED TO ALLOW THE SILT FENCE TO BE INSTALLED.  
3. SILT FENCE CAN BE ATTACHED TO THE CONSTRUCTION SCREEN FENCING.

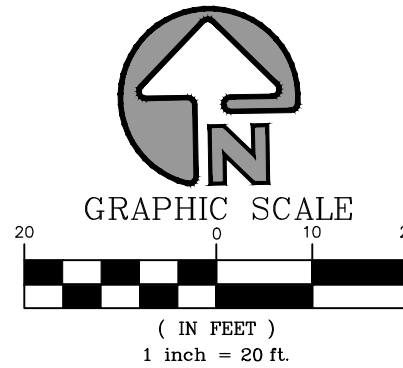
3 SILT FENCE



MASS GRADING / EROSION CONTROL PLAN KEY MAP  
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JEFFERY W. BAKER, P.E.  
REGISTRATION No. 64122

DATE:



Rev.	Date	Issues and Revisions
2.29.12	PERMIT SUBMITTAL	

Checked	RM/JB	Date	2.29.12
Drawn	WZ/BM/GB	Date	2.29.12
Project No.	USO-005		
Phase	CONSTRUCTION		
CADD File			
Project	PROJECT 722		
Building/Attraction			

LAND MAIN UTILITY TIE-IN AND MASS GRADING

Drawing Title		
MASS GRADING / EROSION CONTROL PLAN		
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Building No.	Sheet No.	Re
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### EROSION CONTROL KEY NOTES

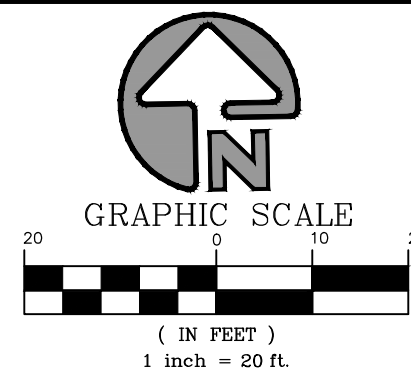
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SEE POLLUTION PREVENTION NOTES AND DETAILS ON SHEET C201.



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Checked	RM/JB	
Drawn	WZ/BM/GB	Date 2.29.12
Project No.	USO-005	
Phase	CONSTRUCTION	
CADD File		
Project		
<h1>PROJECT</h1> <h2>722</h2>		
Building/Attraction		

## LAND MAIN UTILITY TIE-IN AND MASS GRADING

Drawing Title  
**MASS GRADING /  
EROSION CONTROL PLAN**

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Building No.	Sheet No.	Rev.
	C203	



MASS GRADING / EROSION CONTROL PLAN KEY MAP  
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